IRON MINES AT HEAD OF PROVO

Geological Survey Expert Issues Bulletin.

OPERATED BY E. P. FERRY

ORE IS A RED HEMATITE-DIS-COVERED BY INDIANS.

In a reconnaissance study of the general geology of the region lying east of the Wasatch Range, Utah, J. M. Boutwell of the United States Geological Survey recently visited deposits of rich red ore (hematite) and ob-tained significant geologic data concerning that region. In a short article published in the Survey's Bulletin No. 225, entitled, "Contributions to Economic Geology, 1903," Mr. Boutwell presents the essential facts learned about these iron deposits of the Uinta Moun-

Deposits in Uinta Range. The Uinta range is in the north-east-ern part of Utah, but it extends also into the extreme northwestern part of Colorado, immediately south of Wyom-

Colorado, immediately south of Wyoming. In about the latitude of Salt Lake City and the southern shores of Great Salt Lake, it reaches from the Wasatch range eastward approximately 150 miles, with an average width of about 35 miles. The range is in the form of an elongated dome composed of a deeply dissected central plateau and encircling hills.

The iron deposits described by Mr. The iron deposits described by Mr. Boutwell occur in limestone near the inner margin of the belt of encircling

hills, and thus immediately outside of the interior plateau region. The nar-row divide in which they occur over-looks eastward the broad glacial am-phitheatre of the upper Duchesne and its canyon, and westward the corresponding amphitheatre of the basin of Soapstone Creek. The locality is easily accessible from the west by way of Provo River and Soapstone Creek. It is reported that the continuation of the same route leading by other deposits, farther south, may also be taken from the Duchesne on the east.

Discovered by Indians. The iron was probably discovered and the first used by the Indians, who are reported to have looked with favor on it as a source of paint. About 25 years ago the most promising deposits were located by a party from Heber. It is believed that they did the first actual development work on the property and hauled a few loads of ore to the smelters in Salt Lake valley. It is known that shipments were made amounting in all to at least 500 tons. About 1882 the ground was surveyed for patent, and seven claims, each 600 by 1500 feet, were eventually patented to E. P. Ferry. Some further prospecting has since been done in the vicinity, and as a result a few more claims may have been staked. In the fall of 1902 other companies were prospective. fall of 1902 other croppings were pros-pected, additional claims were laid out, and some assessment work was done.

Ore is Red Hematite.

The ore is a red hematite of two varleties, the red of the ocherous, and the gray of the massive, semispecular scan ore. An analysis of a selected sample of the high-grade massive, semispecular variety reveals not only a high content of iron (79.34 per cent) and a suitable amount of silica (18.55 per cent), but also a most desirable absence of the deleterious elements, titalium and sulphur, and only a trace of phosphorous. It indicates a high-grade workable iron ore. So little development work has been done, however, that there is meager basis for estimating its quantity.

A surveyor who ran a line for a rail road through this region in the early days reports an extensive body of iron, apparently on this same divide, several miles to the north, and others style that promising outcrops occur to the south also are divided on the point Lookout velous and the point Lookout velous at the point look of the point Lookout velous at the point look of the point Lookout velous at the point look of the point Lookout velous at the point look of the point Lookout velous at the point look of the point Lookout velous at the point look of the point look of the point Lookout velous at the point look of the point Lookout velous at the point look of the point Lookout velous at the point look of the point look of the point Lookout velous at the point look of the point look of the point Lookout velous at the point look of the look of the point look of the look of t type. It varies in purity from samples of high grade, which are solid, pure iron, to those in which the barren country rock incloses mere patches of

apparently on this same divide, several miles to the north, and others strice that promising outcrops occur to the south along this divide at intervals of several miles. A good wagon road, now out of repair, was built in the sealy eighting from the main road. and the others reported to occur in the vicinity, it should appear that the in very strong hands. If the men op-amount of ore warranted operation of erating there make the payment one the property, the chief problem would in July it will give new life to that be that of transportation.

FUTURE OF MINING.

Brighter in All Sections of the West Than Ever Before.

The immediate future of the mining The immediate future of the mining industry was never brighter than at the present time, says Ores and Metals. This is true of all sections of the west. The vast amount of development work carried on has been completed and new plants, which have been in process of ercetion for the past several months, are nearly finished. An immediate increase in tomage will follow as a matter of course. This is especially true of Arizona, Utah and Colorado. Southern Nevada, particularly Tonopah, awaits only the completion of the railroad, now within a process of the completion of the railroad, now within a process of the control of the railroad, now within a process of the control of the control of the railroad, now within a process of the control of the control

stream of wealth, which has been impeded by reason of lack of transportation facilities only.

In Idaho the construction of new roads will permit the passage of ore which was not possible a short time since, and in Oregon the same condition prevails, while the Black Hills of South Dakota are increasing the output steadily, without much noise or bluster Ceneral Wyoming will soon to buster Ceneral Wyoming will soon to be soon t or bluster. Ceneral Wyoming will soon be the scene of greater activity, due to the construction of great reduction plants to handle the gold-bearing ores of tht South Pass and Atlantic City country, and the probability that a railroad will be constructed to those

is told by the shipments of machinery to that state, while the work progressing in all these states, in new districts, with excellent results, bids fair to add new camps to the producing sections of the west.

LIPMAN'S POINT LOOKOUT.

Ledge Faulted Just as Did That in the Minnie Moore.

will be added to the payron.

Battle Mountain Nevadan: It is said that the Tenabo Mining company's property at Correz will be closed down to night for an indefinite period, orders having been received from the company's headquarters that that efffect. Some five men will be retained to look after the company's property. We did not learn the cause for the shutdown, and hope that it will not be 'long before the company will see fit to resume operations.

Carson City News World for the payron.

Alice Alice Alice Alice that the Tenabo Mining company's property at Correz will be closed down to night for an indefinite period, orders having been received from the company's headquarters that that efffect. House and hope that it will not be 'long before the company will see fit to resume operations.

M. H. Lipman, the Wood river mining man, is a visitor to the city. He is the principal owner and manager of the Point Lookout property near Bullion. It produced considerably in the early days of the camp, but like all the others there it shut off at about 200 feet. That came about the time of the fall in silver, and all the mines closed down, says the Boise Statesman.

Mr. Lipman has recently been at work in the mine again, doing considerable work. He reports he has demonstrated that the vein folds. work in the mine again, doing considerable work. He reports he has demonstrated that the vein folds back like that in the Minnie Moore and he is now working on it below the fold. He has a tunnel into the property from the Bullion side. At 450 feet is struck a voin like years flat, its dip being about 23. Chicago and return, via St. Louis 50.00

Gardner Daily Store News



THE Fireworks start Tomorrow Morning with our Low Prices Shot to Pieces. 'Tis a mighty Clear= ance of Seasonable Clothes, ignoring profits and offering irresistible bargains.

TOMORROW

Starts the One Gigantic Clothing Sale of the Summer Season.

WITH STYLISH CLOTHES ENOUGH TO SUPPLY THIS ENTIRE COMMUNITY. QUALITY-GIVING BEYOND CONCEPTION

Clearance of Men's Suits.

\$5.75 Is the clearance price we have \$7.50 Suits, a clear saving of \$1.75 on each Suit.

Buys the pick of a great lot of \$10 Suits, as good values as were ever offered at that price. That's a clear saving of \$3 on each Suit.

\$9.00 Takes the choice of the regular \$12 lot of Suits of our usual high standard grade. A saving to you of \$3 on a single Suit.

SILOO Takes the unrestricted choice of nearly 1000 of the finest \$15 Suits shown in this store. Get one of these and you'll save \$4.

Just think of buying a Gardner \$18 Suit in the newest style and pattern, for. \$13.50 A saving of \$4.50 on the Suit.

Think of buying a Gardner \$20 Suit, one of the best we have offered at that price, for the \$15.00 little sum of \$15.00 A saving of \$5 on the Suit.

Think of choosing from a great line of our regular \$25 Suits, the true custom-tailored kind, \$19.00 of this year's production, at And thereby saving \$6 on as fine a Suit as any man would wish

Clearance of Boys' Suits.

\$1.05 Is all it takes to secure for the boy one of our \$2.50 Suits, which means equal to most \$3 grades. It's a real saving of 65c and that's worth saving.

\$2.25 Will give one of our Boys' \$3 Suits at a real saving of 75c. It will pay you to buy now for school time---have the benefits of our good qualities.

\$2.50 Takes the choice of the big line of Boys' \$3.50 Suits, saves \$1 for you and gives a full \$3.50 worth in actual clothes quality.

There's a big lot of Boys' Suits in this sale at a saving of \$1 on each Suit. They are the regular \$4 kind, at . . . \$3.00 Here's one of the star offers of all this

great sale. Our swell \$5

Suits in rich, fashionable @9 7 A saving of \$1.25 to the Suit. Our Boys' \$6 Suits go in this sale at a

price that is less than the cost to make them. A sav-ing of \$1.50 on each Suit.... \$4.50 Come now and get a Boy's \$7.50 Suit of the finest kind, and save

\$1.75 for the pleasure. A lot \$1.75 for the pleasure. A lot \$5.75 of them in this great sale at

Men's \$1.50 and \$2.00 Shirts at \$1.00

Men's \$1.00 Shirts at 75 Cents

Men's 75 Cent Shirts at 50 Cents

The time to wind up the summer stock has come, and we are going about it in the most aggressive, legitimate manner, hammering prices to the limit to accomplish our object in double quick time. Men's Suits, Pants, Straw Hats, Felt Hats, Shirts, Underwear, Hose and Neckwear; and Boys' Suits, Pants, Straw Hats and Neckwear are thrown out to you with all the profit knocked off. The Bargain Carnival Starts Tomorrow Morning.

Price

THE QUALITY STORE.

136-138

Main St.

STORE CLOSED TODAY. SALE STARTS TOMORROW

the early eighties from the main road along the Provo river up Soapstone creek, past a sawmill, to the ore pits at the crest of the divide. At present the nearest railroad point is Park City, about 35 miles west. Standing timber is plentiful, and a small creek flows across the proposety. If on they are will be found and in the proposet of the propo he would not give anything 15; a guar-anty that the ore will be found going down below the disturbed region. The Red Elephant property is now in very strong hands. If the men op-

Mining Notes.

Lovelock Argus: The gypsum deposit in the foothills east of town have been sold to a firm in California and a contract has been let to extract and ship a carload per day to California.

res of tht South Pass and Atlantic slity country, and the probability that railroad will be constructed to those oints will quicken the industry in that ection.

Montana is developing new fields, as will be far and developing the lower levels, and a large number of men Alic Montana is developing new fields, as will be added to the payron.

Ar incline is being sunk on this last Tickets good for stopover.

1		No.	No.	A
1	Name.	Cert.	Shares.	D
	S. P. Armstrong	461	100	\$ 1
1		3,568	750	1
1	S. P. Armstrong	3,579	400	4
	S. P. Armstrong	5,046	200	
ì	S. F. Armstrong	5.047	1,000	10
ı	D. F. Armstrong	5,049	1,000	36
1	S. P. Armstrong	5,051	1.000	36
j	J. M. Allen	0,655	500	- 2
1	Frank Beesly	3,199	200	
1	Frank Beesly	3,920	50	
1	W. J. Browning	4.666	100	1
1	B. H. Bower	3,354	100	. 1
	D. H. Bower	2 722	100	1
ł	W. H. Bramel	842	1,000	10
1	W. M. Bramel	863	500	5
	W. H. Bramel	1,310	100	1
1	W. H. Bramel	1,311	100	- 1
	Barnett & Langiev.	3,925	100	- 1
1	Barnett & Langley	4,740	500	- 5
1	Bank of Commerce	5,293	500	5
1	Geo. Cameron	2,865	100	1
1	Geo. Cameron	3,126	200	2
1	Miss Ida Chipman	2,890	100	1
ì	A. R. Carter	1,593	1,000	10
i	Cornforth & Pond	1,668	. 100	1
İ	Albert Clark	4,753	£00	5
l	Henry Cohn	5,811	500	5
t	Henry Cohn	5,790	500	. 5
į	Jos. Ctark	4,798	400	- 4
1	W. H. Clark	3,870	50	
I	A. S. Campbell	4.706	100	1
J	J. A. Cunningham	5,286	5,600	50
ł	J. A. Cunningham	5,287	5,090	50
l	J. A. Cunningham	5,288	2,000	20
ì	J. A. Cunningham.,	5,289	2,000	'20
l	J. A. Cunningham	5,290	1,000	10
l	J. A. Cunningham	5,291	1,000	10
Ī	Thomas Coudert	5,672	500	5
ĺ	John Campbell	4,364	1,000	10
ĺ	John Campbell	5.556	5,000	50
		5,557	5,000	50
ĺ	John Campbell		5,500	99
	H. B. Cole	5,499	1,000	10

Notice.

NOTICE IS HEREBY GIVEN BY THE city council of Salt Lake City of the intention of such council to make the following described improvements, to-wit. Constructing cement sidewalks, 6 feet wide, on both sides of all streets within the district bounded on the north by South Temple street, on the south by Fourth South street, on the west by Second East street and on the east by Ninth East street, in sidewalk districts Nos. 2, 4, 6, 14, 16, 17, 20 and 22, and defray the cost and expense thereof, estimated at

2.00 lot 8; block 72, fronting on Second South
1.00 street, all of lots 1, 2, 3 and 4; fronting on
5.00 Second East street, the south 281.5 feet
10.00 of lot 4 and the north 247.5 feet of lot 5;
5.00 fronting on Third East street, all of lots
5.00 street, all of lots 2, 3, 4 and 5; fronting on
Third East street, all of lots 1 and 6, the
1.00 street, all of lots 2, 3, 4 and 5; fronting on
Third East street, all of lots 1 and 6, the
1.00 south 8.25 feet and the north 36 feet of lot
7, the north 33 feet of lot 8.
10.00 Fourth South street, all of lots 5 and 6; block 33, fronting on
5.00 Fourth South street, all of lots 5 and 6; block 33, fronting on
1.00 south street, all of lots 5 and 6; block 33, fronting on
1.00 south street, all of lots 5 and 6; block 33, fronting on
1.00 south street, all of lots 5 and
1.00 fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 35, fronting on
1.00 fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 36, fronting on
1.00 fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 36, fronting on
1.00 fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street,
1.00 street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street, all of lots 5, 6, 7 and 8; block 36, fronting on Fourth South street,

Dated April 25th, 1904.
J. S. CRITCHLOW. Sidewalk extension No. 65. Assessment No. 4.

CUMMINGS COMMISSION CO. BROKERS.

York stocks and Chicago grain. We buy and sell stocks and grain on margin or for cash. Our private rooms enable our customers to come in and transact business with formation (SYSTEM OF SPECU-

LATION) free upon application. Rooms 209-210-211-212 D. F. Walker Block.

Members Salt Lake Stock and Mining Exchange. 'Phone 699.

DRUNKENNESS



THE KEELEY INSTITUTE. Salt Lake City, Utak, Lock Box 482,



Redman Van & Storage Co. 126-128 S. WEST TEMPLE ST. Storage, Moving, Packing and Shipping. Cut rates on Shipping, Expert Packers. Largest Moving Vans. All Work Guaranteed.

HULBERT BROS. makers of 233 S. Main, adjoining Kenyon Ho-

Notice of Assessment. COMSTOCK SILVER MINING COM-any. Principal place of business Salt-ake City. Utah. Location of mines, lintah Mining district, Summit county, Assessment No. 4.

THE CRUSADER CONSOLIDATED Mining company of Tintic. Location of principal place of business. Salt Lake City. Utah. Location of mines, Uintah Mining district, Summit county, Utah. Notice is hereby given that at a meeting to the board of directors of said company, held on the 24th day of June, 1904. assessment No. 4 of one-quarter cent per share was levied on the capital stock of the corporation, payable immediately to the secretary at the office of the company, 25 Commercial Club building, Salt Lake City, Utah. Any stock upon which this assessment shall remain unpaid on Wednesday, July 27, 1904, will be deim quent and advertised for sale at public auction, and unless payment is made before, will be sold on Saturday, the 25th day of August, 1904, at 1 o'clock p m., to pay the delinquent assessment, together with cost of advertising and expense of sale.

ERNEST WILLIAMS.

Secretary.

Salt Lake City, Utah. Any Principal place of business Salt Lake City, Utah. Location of mines, Uintah Mining district, Summit county, Utah. Notice is hereby given that at a meeting of the board of directors of the Compator of the company, and assessment No. 8, was levied upon the capital stock of the corporation, Issued and ourstanding, payable immediately to A. Hanauer, ir., president of the company, at the office of the company, 415 Progress building, Salt Lake City, Utah. Any stock upon which this assessment shall remain unpaid on the 27th day of July, 1904, will be delinquent and advertised for sale at public auction, and unless payment is made before, will be sold at the company's office on Monday, the 15th day of August, 1904, at 3 o'clock p. m., to pay the delinquent assessment to pay the delinquent assessment to pay the delinquent assessment with cost of advertising and expense of sale.

ERNEST WILLIAMS.

Secretary.

Salt Lake City, Utah. June 25, 1904.

expense of sale:

A. HANAUER. JA., President.

Room 45 Progress Building, Main Street,
Salt Lake C. Utah.

Dated June 24, 1994.

and better ones here to select from than anywhere in Salt Lake. A glance at the display in our Window will show you just a hint at what may be seen inside of the store. All sizes: all prices.

See the HAMMOCK and GASOLINE

STOVE Display in our Windows.

VERYTHING IN HARDWARE . 42 44 46 W. Z" *************

> A Cressida Cigar is perfection itself when it leaves the Gato factory. It is kept perfectly in our specially constructed vaults. Why shouldn't it be the best?

> > RIEGER & LINDLEY. "The Whiskey Merchants."



TAKE FOR GRANTED The piano you want is here; liberal

and fair treatment; reasonable prices

and most considerate terms. SIO A MONTH **BUYS A GOOD PIANO**

It is a pleasure for us to show you the different makes and talk it over.

51 and 53 Main.

Notice of Assessment.

LITTLE CHIEF MINING & MILLING company. Principal place of business at Salt Lake City, Utah. Notice is hereby given that at a meeting of the board of directors, held on the 23d day of June, 1904, an assessment of one (f) cent per share (being assessment No. 25) was levied upon the capital stock issued and outstanding of the corporation, payable immediately to J. Oberndorfer, secretary of the company, at his office, No. 161 South Main street, Salt Lake City, Utah.

Any stock upon which this assessment shall remain unpaid on the 28th day of July, 1964, will be delinquent and advertised for sale at public auction, and unless payment is made before, will be sold on the 18th day of August, 1904, to pay the delinquent assessment, together with the cost of advertising and expense of sale.

J. OBERNDORFER.

Secretary.

No. 161 South Main Street, Salt Lake

Notice to Contractors.

SEALED BIDS WILL BE RECEIVED up to Wednesday, July 6, 120d, to 12 noon, by the trustees of the Forty-third school distributed. Salt Lake county, state of Utah, for the erection of a school building according to plans and specifications drawn by J. A. Headlund & Co., architects, 523-154 Dooly building. Salt Lake City, where plans can be seen on and after June 28, 1904, and at Nichoas Hair. Bingham canyon, secretary is house July 6, 1904, at 12 noon. A certified cleek of 2 per cent of the amount of bid must accompany each bid. The trustees reserve the right to reject any or all bids.

The time for opening the above bids have been extended until July 16, and notice is hereby given that they will be opened at the above said place at the time herein mentioned.

By order of the board of trustees.

CHARLES BRINK, NICHOLAS HAIR, J. W. GRANT.